GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

Course Tittle: DC Machines Lab

Following documents are available in Course File.

S.No.	Points	Yes	No
1	Institute and Department Vision and Mission Statements	✓	
2	PEO & PO Mapping	✓	
3	Academic Calendar	✓	
4	Subject Allocation Sheet	✓	
5	Class Time Table, Individual Timetable (Single Sheet)	✓	
6	Syllabus Copy	✓	
7	Course Handout	✓	
8	CO-PO Mapping	✓	
9	CO-Cognitive Level Mapping	✓	
10	Lecture Notes		✓
11	Tutorial Sheets With Solution		✓
12	Soft Copy of Notes/Ppt/Slides		✓
13	Sessional Question Paper and Scheme of Evaluation		✓
14	Best, Average and Weak Answer Scripts for Each Sessional Exam. (Photocopies)		✓
15	Assignment Questions and Solutions	✓	
16	Previous University Question Papers		✓
17	Result Analysis	✓	
18	Feedback From Students	✓	
19	Course Exit Survey		✓
20	CO Attainment for All Mids.		✓
21	Remedial Action.		✓

Course Instructor / Course Coordinator

(Name)

Course Instructor / Course Coordinator

(Signature)

Department/Program-EEE

MISSION OF THE INSTITUTE:

To achieve and impart quality education with an emphasis on practical skills and social relevance.

VISION OF THE INSTITUTE:

To be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicenter of creative solutions.

VISION OF THE PROGRAM:

To impart technical knowledge and skills required to succeed in life, career and help society to achieve self-sufficiency.

MISSION OF THE PROGRAM:

- To become an internationally leading department for higher learning.
- To build upon the culture and values of universal science and contemporary education.
- To be a center of research and education generating knowledge and technologies which lay groundwork in shaping the future in the fields of electrical and electronics engineering.
- To develop partnership with industrial, R&D and government agencies and actively participate in conferences, technical and community activities.

Program Educational Objectives (PEO's):

PEO 1: Graduates will have a successful technical or professional careers, including supportiveand leadership roles on multidisciplinary teams.

PEO 2: Graduates will be able to acquire, use and develop skills as required for effectiveprofessional practices.

PEO 3: Graduates will be able to attain holistic education that is an essential prerequisite forbeing a responsible member of society.

PEO 4: Graduates will be engaged in life-long learning, to remain abreast in their profession andbe leaders in our technologically vibrant society.

Program outcomes

a) Ability to apply knowledge of mathematics, science, and engineering.
b) Ability to design and conduct experiments, as well as to analyze and interpret data.
c) Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
d) Ability to function on multi-disciplinary teams.
e) Ability to identify, formulates, and solves engineering problems.
f) Understanding of professional and ethical responsibility.
g) Ability to communicate effectively.
h) Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
i) Recognition of the need for, and an ability to engage in life-long learning.
j) Knowledge of contemporary issues.
k) Ability to utilize experimental, statistical and computational methods and tools necessary for engineering practice.
l) Graduates will demonstrate an ability to design electrical and electronic circuits, power electronics, power systems; electrical machines analyze and interpret data and also an ability to design digital and analog systems and programming them.

PEOs & POs Mapping

Programme Educational Objectives (PEOs)	Programme Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	M	M	-	-	H	-	-	H	H	-	H	H
2	-	-	M	M	H	H	H	-	-	-	-	H
3	-	-	-	-	H	H	M	M	M	M	H	H
4	-	-	-	M	M	H	M	H	H	-	M	H

* H: Strongly Correlating (3); M: Moderately Correlating (2)& L: Weakly Correlating (1)

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE OBJECTIVES

Academic Year : 2018-2019

Semester : I

Name of the Program: EEE…… B.Tech …II/I……. Section: A,B

Course/Subject: DC Machines Lab……Code:GR17A2037

Name of the Faculty: D.Srinivasa Rao Dept: ……..EEE……

Designation: Assistant professor

On completion of this Subject/Course the student shall be able to:

S.No	Course Objectives
1.	Strong background in different types of excitation for dc motors and generators
2.	Mathematical foundation and there by the relative production of emf with respect to flux.
3.	Knowledge on various lab experiments connected with dc motors.
4.	Knowledge on various lab experiments connected with dc generators and there by achieve the design concepts.
5.	Knowledge on application of dc motor concepts with respect to the performance characteristics of dc motors.
6.	Knowledge on application of dc generator concepts with respect to the performance characteristics of dc generators.
7.	Basic knowledge of drive systems for further study at post graduate level.

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Department of Electrical & Electronics Engineering

COURSE OUTCOMES

Academic Year : 2018-2019

Semester : I

Name of the Program: EEE…… B.Tech …II/I…… Section: A,B

Course/Subject: DC Machines Lab…… Code:GR17A2037

Name of the Faculty: D.Srinivasa Rao Dept: ……..EEE……

Designation: Assistant professor

The expected outcomes of the Course/Subject are:

S.No	Course Outcomes
1.	Have knowledge of various parts of a electrical DC machines
2.	Develop knowledge helpful for application of dc machines.
3.	Conduct speed control of different types of DC Motors.
4.	Use characteristics of various generators depending on their type of field excitation.
5.	Understand the concept of different types of windings viz lap and wave for armature
6.	Perform test on Motor-Generator Set.
7.	Know the concept of commutation dc machines for conversion of AC to DC or DC to AC.

Signature of HOD Signature of faculty

Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

ACADEMIC CALENDAR
Academic Year 2018-19

II B.TECH – FIRST SEMESTER

S. No.	EVENT	PERIOD	DURATION
1	1st Spell of Instructions	02-07-2018 to 05-09-2018	9 Weeks 3 Days
2	1st Mid-term Examinations	06-09-2018 to 08-09-2018	3 Days
3	2nd Spell of Instructions	10-09-2018 to 27-10-2018	7 Weeks
4	2nd Mid-term Examinations	29-10-2018 to 31-10-2018	3 Days
5	Preparation	01-11-2018 to 07-11-2018	1 Week
6	**End Semester Examinations (Theory/ Practicals) Regular/Supplementary**	**08-11-2018 to 08-12-2018**	**4 Weeks 3 Days**
7	Commencement of Second Semester, A.Y 2018-19	10-12-2018	

II B.TECH – SECOND SEMESTER

S. No.	EVENT	PERIOD	DURATION
1	1st Spell of Instruction	10-12-2018 to 06-02-2019	8 Weeks 3 days
2	1st Mid-term Examinations	07-02-2019 to 09-02-2019	3 Days
3	2nd Spell of Instruction	11-02-2019 to 03-04-2019	**7 Weeks 3 Days**
4	2nd Mid-term Examinations	04-04-2019 to 06-04-2019	3 Days
5	Preparation	08-04-2019 to 17-04-2019	**1 Week 3 Days**
6	**End Semester Examinations (Theory/ Practicals) Regular**	18-04-2019 to 08-05-2019	3 Weeks
7	**Supplementary and Summer Vacation**	**09-05-2019 to 22-06-2019**	**6 Weeks 3 Days**
8	Commencement of First Semester, A.Y 2019-20	24-06-2019	

Subject Code	Subject Name	Faculty Code	Faculty Name	Almanac	
GR17A2058	Special Functions and Complex Variable	Dr GS	Dr G Swapna	1st Spell of Instructions	02-07-2018 to 05-09-2018
GR17A2076	Computer Organization	PRK	P Ravi Kanth	1st Mid-term Examinations	06-09-2018 to 08-09-2018
GR17A2034	Electromagnetic Fields	SN	Syed Sarfaraz Nawaz	2nd Spell of Instructions	10-09-2018 to 27-10-2018
GR17A2035	Network Theory	MS	M Srikanth	2nd Mid-term Examinations	29-10-2018 to 31-10-2018
GR17A2036	DC Machines and Transformers	Dr BPB	Dr B Phaneendra Babu	Preparation	01-11-2018 to 07-11-2018
GR17A2037	DC Machines Lab	DSR/PRK	D Srinivasa Rao/P Ravikanth	End Semester Examinations (Theory/ Practicals) Regular / Supplementary	08-11-2018 to 08-12-2018
GR17A2038	Electrical Networks Lab	YSV / GBR	Y Satya Vani/ G Bhaskar Rao		
GR17A2039	Electrical Simulation Lab	GSR/PS	G Sandhya Rani / P Sirisha	Commencement of Second Semester, A.Y	12/10/2018
GR17A2001	Environmental Science	Bh.SR	Bh. Saroja Rani		

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GRIET/PRIN/06/G/01/18-19

wef: 02 July 2018

B.Tech - EEE – A

II Year - I Semester

Day/Hour	9:00 - 9:45	9:45 - 10:30	10:30 - 11:15	11:15-12:00	12:00 - 12:30	12:30 - 1:20	1:20 - 2:10	2:10 -3:00
MONDAY	ES Lab /DCM Lab A1/A2				BREAK	ES	DCMT	DCMT
TUESDAY	DCM Lab / EN Lab A1/A2					DCMT	DCMT	NT
WEDNESDAY	EN Lab / ES Lab A1/A2					NT	NT	CO
THURSDAY	SFCV		EMF			ES	CO	CO
FRIDAY	NT		EMF			SFCV	CO	CO
SATURDAY	EMF		DCMT			SFCV	SFCV	NT

Room No.	
Theory	4401
Lab	DCM Lab-2106 ES Lab- 4508 EN Lab- 4510
Class Incharge :	V V S Madhuri

Subject Code	Subject Name	Faculty Code	Faculty Name	Almanac	
GR17A2058	Special Functions and Complex Variable	Dr GS	Dr G Swapna	1st Spell of Instructions	02-07-2018 to 05-09-2018
GR17A2076	Computer Organization	PRK	P Ravi Kanth	1st Mid-term Examinations	06-09-2018 to 08-09-2018
GR17A2034	Electromagnetic Fields	SN	Syed Sarfaraz Nawaz	2nd Spell of Instructions	10-09-2018 to 27-10-2018
GR17A2035	Network Theory	MS	M Srikanth	2nd Mid-term Examinations	29-10-2018 to 31-10-2018
GR17A2036	DC Machines and Transformers	Dr BPB	Dr B Phaneendra Babu	Preparation	01-11-2018 to 07-11-2018
GR17A2037	DC Machines Lab	DSR/MP	D Srinivasa Rao/M Prashanth	End Semester Examinations (Theory/ Practicals) Regular / Supplementary	08-11-2018 to 08-12-2018
GR17A2038	Electrical Networks Lab	YSV / GBR	Y Satya Vani/ G Bhaskar Rao		
GR17A2039	Electrical Simulation Lab	GSR/PS	G Sandhya Rani / P Sirisha	Commencement of Second Semester, A.Y	10-12-18
GR17A2001	Environmental Science	MHK	M Haritha Kiranmayi		

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

B.Tech - EEE – B

II Year - I Semester

Day/Hour	9:00 - 9:45	9:45 - 10:30	10:30 - 11:15	11:15-12:00	12:00 - 12:30	12:30 - 1:20	1:20 - 2:10	2:10 -3:00
MONDAY	EMF		DCMT		BREAK	SFCV	SFCV	ES
TUESDAY	DCMT		EMF			NT	CO	CO
WEDNESDAY	NT		CO			SFCV	EMF	EMF
THURSDAY	ES Lab /DCM Lab B1/B2					SFCV	SFCV	NT
FRIDAY	DCM Lab / EN Lab B1/B2					NT	NT	ES
SATURDAY	EN Lab / ES Lab B1/B2					CO	DCMT	DCMT

Room No.	
Theory	4402
Lab	DCM Lab-2106 ES Lab- 4508 EN Lab- 4510
Class Incharge :	VVSMadhuri

Subject Code	Subject Name	Faculty Code	Faculty Name
GR17A2058	Special Functions and Complex Variable	Dr GS	Dr G Swapna
GR17A2076	Computer Organization	PRK	P Ravi Kanth
GR17A2034	Electromagnetic Fields	SN	Syed Sarfaraz Nawaz
GR17A2035	Network Theory	MS	M Srikanth
GR17A2036	DC Machines and Transformers	Dr BPB	Dr B Phaneendra Babu
GR17A2037	DC Machines Lab	DSR/PRK	D Srinivasa Rao/P Ravikanth
GR17A2038	Electrical Networks Lab	YSV / GBR	Y Satya Vani/ G Bhaskar Rao
GR17A2039	Electrical Simulation Lab	GSR/PS	G Sandhya Rani / P Sirisha
GR17A2001	Environmental Science	Bh.SR	Bh. Saroja Rani

Almanac	
1st Spell of Instructions	02-07-2018 to 05-09-2018
1st Mid-term Examinations	06-09-2018 to 08-09-2018
2nd Spell of Instructions	10-09-2018 to 27-10-2018
2nd Mid-term Examinations	29-10-2018 to 31-10-2018
Preparation	01-11-2018 to 07-11-2018
End Semester Examinations (Theory/ Practicals) Regular / Supplementary	08-11-2018 to 08-12-2018
Commencement of Second Semester, A.Y	10-12-18

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

Individual timetable

Day/Hour	9:00 - 9:45	9:45 - 10:30	10:30 - 11:15	11:15- 12:00	12:00- 12:30	12:30 - 1:20	1:20 - 2:10	2:10 -3:00
MONDAY	DCM LAB B2				BREAK			
TUESDAY	DCM LAB B1							
WEDNESDAY								
THURSDAY	DCM LAB A2							
FRIDAY	DCM LAB A1							
SATURDAY								

Room No.	
Theory	4401
Lab	DCM Lab-2106 ES Lab- 4508 EN Lab- 4510
Class Incharge:	V V S Madhuri

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

Syllabus

Course Code: GR17A2037 L:0 T:0 P:2 C:2 63 GR17 Regulations

Contents

1. Speed Control of a D.C Shunt Motor
2. Brake Test on a DC Shunt Motor
3. Brake Test on a DC Compound Motor
4. Open Circuit Characteristics of a DC Shunt Generator
5. Load test on a D.C. Shunt Generator.
6. Load test on a D.C. Series Generator
7. Load test on D.C. Compound Generator
8. Hopkinson Test
9. Fields Test
10. Retardation Test on D.C. Shunt Motor
11. Swinburne's Test
12. Separation of Core Losses

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Department of Electrical & Electronics Engineering

COURSE SCHEDULE

Academic Year : 2018-2019

Semester : I

Name of the Program: EEE…… B.Tech …II/I…..… Section: A,B

Course/Subject: DC Machines Lab…… Code:GR17A2037

Name of the Faculty: D.Srinivasa Rao Dept: ……..EEE……

Designation: Assistant professor

The Schedule for the whole Course / Subject is:

Exp. No.	Description	Duration(Date)	Total No. of Periods
1.	Speed Control of a D.C Shunt Motor	09/07/18	4
2.	Brake Test on a DC Shunt Motor	09/07/18	4
3.	Brake Test on a DC Compound Motor	16/07/18	4
4.	Open Circuit Characteristics of a DC Shunt Generator	16/07/18	4
5.	Load test on a D.C. Shunt Generator.	20/07/18	4
6.	Load test on a D.C. Series Generator.	23/07/18	4
7	Review of first cycle experiments	27/07/18	4
8.	Load test on a D.C. Compound Generator.	30/07/18	4
9.	Hopkinson Test	03/08/18	4
10	Fields Test	17/08/18	4
11.	Retardation Test on D.C. Shunt Motor	24/08/18	4
12.	Swinburne's Test	31/08/18	4
13.	Separation of Core Losses	14/09/18	4
14.	Internal Examination	21/09/18	4

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Total No. of Instructional periods available for the course: …. …….Hours / Periods

SCHEDULE OF INSTRUCTIONSCOURSEPLAN

Academic Year : 2018-2019

Semester : I

Name of the Program: EEE…… B.Tech …II/I……. Section: A,B

Course/Subject: DC Machines Lab…… Code:GR17A2037

Name of the Faculty: D.Srinivasa Rao Dept: ……..EEE……
Designation: Assistant professor

Exp .No	Topics	Objectives & Outcome s	References(TextBook,Journal…)
1.	Speed Control of a D.C Shunt Motor	1,2,3 & 1,2	Electric Machines by I.J. Nagrath&D.P. Kothari
2.	Brake Test on a DC Shunt Motor	1,2,3 & 1,2	Electric Machines by I.J. Nagrath&D.P. Kothari
3	Brake Test on a DC Compound Motor	1,2,3& 1,2	Electric Machines by I.J. Nagrath&D.P. Kothari
4	Open Circuit Characteristics of a DC Shunt Generator	1,2,3,6& 1,2	Electric Machines by I.J. Nagrath&D.P. Kothari
5	Load test on a D.C. Shunt Generator.	1,2,3& 1,2	Electric Machines by I.J. Nagrath&D.P. Kothari
6	Load test on a D.C. Series Generator.	1,2,3 & 1,2	Electric Machines by I.J. Nagrath&D.P. Kothari
7	Load test on a D.C. Compound Generator.	1,2,3,4& 1,2	Electric Machines by I.J. Nagrath&D.P. Kothari
8	Hopkinson Test	1,2,3 & 2	Electric Machines by I.J. Nagrath&D.P. Kothari
9	Fields Test	1,2,3 & 2	Electric Machines by I.J. Nagrath&D.P. Kothari

10	Retardation Test on D.C. Shunt Motor	1,2,3& 2	Electric Machines by I.J. Nagrath&D.P. Kothari
11	Swinburne's Test	1,2,3,& 2	Electric Machines by I.J. Nagrath&D.P. Kothari
12	Separation of Core Losses	1,2,3,4 ,5,6 & 2	Electric Machines by I.J. Nagrath&D.P. Kothari

Assessment methods:

1. Operation skill and familiarization ofsoftware.
2. Experimental procedure, simulation results, internal observation, labrecord.
3. Internal examinations.
4. External examinations.
5. Viva-voce.

1. **Course Objectives-Program Outcomes (POs) Relationship Matrix** (Indicate the relationships by mark "X")

P-Outcomes / C-Objectives	A	B	c	d	e	F	g	h	i	j	k	l
1	X	X	X	X	X				X	X	X	X
2	X				X		X	X		X	X	
3	X	X	X			X	X	X	X		X	X
4				X	X	X		X	X	X	X	
5		X	X	X					X	X		
6				X	X	X		X		X	X	
7	X	X	X	X	X	X	X		X	X	X	

2. **Course Outcomes-Program Outcomes (POs) Relationship Matrix** (Indicate the relationships by mark"X")

P-Outcomes / C-Outcomes	a	b	c	d	e	f	g	h	i	J	K	l
1	X	X	X	X	X			X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X							X	X	X
5	X	X	X							X	X	X
6	X	X	X							X	X	X
7	X	X	X							X	X	X

3. **Courses (with title & code)-Program Outcomes (POs) Relationship Matrix**
(Indicate the relationships by mark "X"

P-Outcomes / Courses	a	b	c	d	e	f	g	h	i	j	K	l
Electrical Networks Lab	X	X	X	X	X	X	X	X	X	X	X	X

4. **Program Educational Objectives (PEOs) –Vision/Mission Matrix** (Indicate therelationships by mark "X")

PEOs	**Mission of department**			
	Higher Learning	Contemporary Education	Technical knowledge	Research
Graduates will have a successful Technical or professional careers, Including supportive and leadership roles on multidisciplinary teams	X	X	X	X
Graduates will be able to acquire, use and develop skills as required for effective professional practices		X	X	
Graduates will be able to attain holistic education that is an essential prerequisite for being a responsible member of society	X		X	
Graduates will be engaged in life-long learning, to remain abreast in their profession and be leaders in our technologically vibrant society.	X		X	X

5. **Program Educational Objectives(PEOs)-Program Outcomes(POs) Relationship Matrix** (Indicate the relationships by m

P-Outcomes / PEOs	a	b	c	d	e	f
1	X	X	X	X	X	
2	X	X	X	X	X	
3		X	X	X		X
4				X		

6.**Course Objectives-Course Outcomes Relationship Matrix** (Indicate the relationships by mark "X")

Course-Outcomes / Course-Objectives	1	2	3	4	5	6	7
1	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X
3	X	X					
4				X	X		
5			X	X	X	X	X
6			X	X	X	X	X
7	X		X	X	X	X	

Program Educational Objectives (PEOs)-Course Outcomes Relationship Matrix (Indicate the relationships by mark

P-Objectives(PEO) / Course-Outcomes	1	2	3	4
1	X	X		X
2	X	X		X
3	X	X		X
4	X	X		X
5	X	X		X
6	X	X		X
7	X	X		X

8. **Assignments & Assessments-Program Outcomes (POs) Relationship Matrix** (Indicate the relationships by mark "X"

P-Outcomes / Assessments	A	b	c	d	e	f
1	X	x		x		x
2	X	x	x			x
3	X	x	x			x
4	X	x	x			x

9. **Assignments & Assessments-Program Educational Objectives (PEOs) Relationship Matrix** (Indicate the relationships by

P-Objectives (PEOs) / Assessments	1	2	3	4
1	X	X		
2		X		
3		X	X	X

4		X		
5		X		

Assessment process and Relevant Surveys conducted:

1. Constituencies -Program Outcomes (POs) Relationship Matrix
(Indicate the relationships by mark "X").
Constituencies

1. **Alumni**
2. **Governmentemployers**
3. **Students**

P-Outcomes / Constituencies	a	b	c	d	e	f	G	h	i	j	k	l
1	X	X	X	X	X	X	X		X	X		X
2	X	X	X	X	X	X	X		X			X
3	X	X			X	X	X	X		X	X	X

9	CO-Cognitive Level Mapping

Subject :DC Machines Lab

CO	Cognitive Learning Level					
	1	2	3	4	5	6
1		X				
2			X			
3						X
4				X		
5		X				
6			X			
7		X				

Cognitive Learning Levels:

CLL1: Remembering

CLL2: Understanding

CLL3: Applying

CLL4: Analyzing

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CLL5: Evaluating

CLL6: Creating

EVALUATION STRATEGY

Academic Year : 2018-2019

Semester : I

Name of the Program: EEE…… B.Tech …II/I…… Section: A,B

Course/Subject: DC Machines Lab…… Code:GR17A2037

Name of the Faculty: D.Srinivasa Rao Dept: ……..EEE……

Designation: Assistant professor

1. TARGET:

A) Percentage for pass: 100%

2. COURSE PLAN & CONTENT DELIVERY

- PPT presentation of the Lectures
- Solving exercise problems
- Model questions

3. METHOD OF EVALUATION

3.1 ☐ Daily Attendance

3.2 ☐ Lab records and observation

3.3 ☐ Mini Projects

3.4 ☐ Viva Voce

3.5 ☐ Internal Examination

3.6 ☐ Semester/End Examination

4. List out any new topic(s) or any innovation you would like to introduce in teaching the subjects in this Semester.

Signature of HOD Signature of faculty

Date: Date:

RUBRIC

OBJECTIVE: **Work effectively with others**

STUDENT OUTCOME: **Ability to function in a multi-disciplinary team**

S.No.	Student Name	Performance Criteria	Unsatisfactory	Developing	Satisfactor Y	Exemplar y	Scor e
			1	2	3	4	
1.	R.Madhuri (18245A0218)	**Research & Gather Information**	Does not collect any information that relates to the topic.	Collects very little information some relates to the topic	Collects some basic Informatio n most relates to the topic.	Collects a great deal of Informati on all relates to the topic.	
		Fulfill team role's	Does not perform any duties of assigned team role.	Performs very little duties.	Performs nearly all duties.	Performs all duties ofassigne d team role.	
		Share Equally	Always relies on others to do the work.	Rarely does the assigned work-- often needs reminding.	Usually does the assigned work-- rarely needs reminding.	Always does the assigned work without having to be reminded	
		Listen to other team mates	Is always talking--never allows anyone else to speak.	Usually doing most of the talking-- rarely	Listens, but sometimes talks too much.	Listens and speaks a fair amount.	

				allows others to speak.			
						Average score	
2.	Revanth (17241A02B0)	**Research & Gather Information**	Does not collect any information that relates to the topic.	Collects very little information --some relates to the topic	Collects some basic information--most relates to the topic.	Collects a great deal of information--all relates to the topic.	
		Fulfill team role's	Does not perform any duties of assigned team role.	Performs very little duties.	Performs nearly all duties.	Performs all duties of assigned team role.	
		Share Equally	Always relies on others to do the work.	Rarely does the assigned work--often needs reminding.	Usually does the assigned work--rarely needs reminding.	Always does the assigned work without having to be reminded.	
		Listen to other team mates	Is always talking--never allows anyone else to speak.	Usually doing most of the talking--rarely allows others to speak.	Listens, but sometimes talks too much.	Listens and speaks a fair amount.	

						Average score	
3	R.V.Sai Tarun (17241A02A4)	**Research & Gather Information**	Does not collect any information that relates to the topic.	Collects very little information --some relates to the topic	Collects some basic information--most relates to the topic.	Collects a great deal of information--all relates to the topic.	
		Fulfill team role's	Does not perform any duties of assigned team role.	Performs very little duties.	Performs nearly all duties.	Performs all duties of assigned team role.	
		Share Equally	Always relies on others to do the work.	Rarely does the assigned work--often needs reminding.	Usually does the assigned work--rarely needs reminding.	Always does the assigned work without having to be reminded.	
		Listen to other team mates	Is always talking--never allows anyone else to speak.	Usually doing most of the talking--rarely allows others to speak.	Listens, but sometimes talks too much.	Listens and speaks a fair amount.	
						Average score	

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Department of Electrical & Electronics Engineering

COURSE COMPLETION STATUS

Academic Year : 2018-2019

Semester : I

Name of the Program: EEE…… B.Tech …II/I…..… Section: A,B

Course/Subject: DC Machines Lab…… Code:GR17A2037

Name of the Faculty: D.Srinivasa Rao Dept: ……..EEE……

Designation: Assistant professor

Program	Remarks	No. of Objectives Achieved	No. of Outcomes Achieved
1	1 & 2 programs completed by 18/07/18	2,3, 4	2,4
2			
3	3 & 4 programs completed by 22/07/18	1,3	2,4
4			
5	5 program completed by 26/07/18	1,3	2,4
6	6 program completed by 29/07/18	1,3	2,4
7	7 program completed by 02/08/18	1,3	2,4
8	8 program completed by 16/08/18	1,3	2,4
9	9 program completed by 23/08/18	1,3	2,4,6
10	10 program completed by 30/08/18	1,3	2,4
11	11 & 12 program completed by 06/09/18	1,2	2,3
12		1,3	2,1,5
13	12 program completed by 13/09/18	1,3	2,1,5,7

SignatureofHOD Signature offaculty

Date: Date:

Note: After the completion of each unit mention the number of Objectives & Outcomes Achieved.

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GUIDELINES TO STUDY THE COURSE/SUBJECT

Academic Year : 2018-2019

Semester : I

Name of the Program: EEE…… B.Tech …II/I…..… Section: A,B

Course/Subject: DC Machines Lab…… Code:GR17A2037

Name of the Faculty: D.Srinivasa Rao Dept: ……..EEE……

Designation: Assistant professor

Course Design and Delivery System (CDD):

- The Course syllabus is written into number of learning objectives and outcomes.
- These learning objectives and outcomes will be achieved through lectures, assessments, assignments, experiments in the laboratory, projects, seminars, presentations, etc.
- Every student will be given an assessment plan, criteria for assessment, scheme of evaluation and grading method.
- The Learning Process will be carried out through assessments of Knowledge, Skills and Attitude by various methods and the students will be given guidance to refer to the text books, reference books, journals, etc.

The faculty be able to –

- Understand the principles of Learning
- Understand the psychology of students
- Develop instructional objectives for a given topic
- Prepare course, unit and lesson plans
- Understand different methods of teaching and learning
- Use appropriate teaching and learning aids
- Plan and deliver lectures effectively
- Provide feedback to students using various methods of Assessments and tools of Evaluation
- Act as a guide, advisor, counselor, facilitator, motivator and not just as a teacher alone

Signature of HOD
Date:

Signature of faculty
Date:

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ILLUSTRATIVE VERBS FOR STATING INSTRUCTIONAL OBJECTIVES

These verbs can also be used while framing questions for Continuous Assessment Examinations as well as for End – Semester (final)Examinations

ILLUSTRATIVE VERBS FOR STATING GENERAL OBJECTIVES/OUTCOMES

Know	**Understand**	**Design**

ILLUSTRATIVE VERBS FOR STATING SPECIFIC OBJECTIVES/OUTCOMES:

A. COGNITIVE DOMAIN (KNOWLEDGE)

1	2	3	4	5	6
Knowledge	**Comprehension Understanding**	**Application of knowledge & comprehension**	**Analysis Of whole w .r.t. its constituents**	**Synthesis**	**Evaluation Judgment**
Define **Identify**	**Convert** **Describe (a Procedure)** **Distinguish** **Explain why/how**	**Demonstrate** **Prepare** **Relate** **Show** **Solve**	**Differentiate** **Discriminate** **Distinguish** **Separate**	**Categorize** **Combine** **Design** **Generate** **Plan**	**Compare**

B. AFFECTIVE DOMAIN (ATTITUDE)

Assist	**Select**
Change	**Develop**

C. PSYCHOMOTOR DOMAIN (SKILLS)

Bend	**Dissect**	**Insert**	**Perform**	**Straighten**
Calibrate	**Draw**	**Keep**	**Prepare**	**Strengthen**
Compress	**Extend**	**Elongate**	**Remove**	**Time**
Conduct	**Feed**	**Limit**	**Replace**	**Transfer**
Connect	**File**	**Manipulate**	**Report**	**Type**
Convert	**Grow**	**Move Precisely**	**Reset**	**Weigh**
Decrease	**Increase**	**Paint**	**Set**	

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B.Tech EEE IIYEAR I SEM RESULT ANALYSIS OF 2017-2021 BATCH

ACADEMIC YEAR 2018-2019 TOTAL. NO. OF STUDENTS REGISTERED = 136

Subject	Total No. of students appeared	No. of students passed	No. of students failed	Grade Points							
				< 5	5	6	7	8	9	10	Pass percentage
ES	136	135	01	00	16	44	51	19	04	01	99.26%
EMF	136	117	19	00	17	22	34	28	19	03	86.02%
NT	136	120	16	00	08	23	30	25	28	06	88.23%
DCM	136	96	40	00	45	26	08	07	05	05	70.58%
DCM Lab	136	135	01	00	09	09	11	18	54	34	99.26%
EN Lab	136	136	00	00	01	10	09	11	44	58	100%
ES Lab	136	136	00	00	04	03	08	22	52	47	100%
SFCV	136	108	28	00	26	31	23	13	12	03	79.41%
CO	136	131	05	00	06	21	40	39	24	01	96.32%

Overall pass (passed in all subjects) = 85/ 136(62.50%)

Faculty

Environmental Science	Bh Sarojani Rani / Haritha Kirnmayi
Electromagnetic Fields	Syed Sarfaraz Nawaz
Network Theory	M Srikanth
DC Machines	Dr B Phaneendra Babu
Special Functions and Complex Variables	Dr Swapna
Computer Organization	P Ravikanth

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DC Machines Lab	P Ravi Kanth/M Prashanth / D Srinivasa Rao
Electrical Networks Lab	Y Satyavani /G Bhaskar Rao
Electrical Simulation Lab	G Sandhya Rani / P Sirisha

ARREARS POSITION – CURRENT YEAR

Description	All pass	One Arrear	Two Arrears	Three Arrears	More than Three Arrears	% of pass
136	85	25	10	04	12	62.50%

Performance overall Class Three Toppers

ROLL NO.	NAME	PERCENTAGE(SGPA)
18245A0222	THIRUNAGARU DEEKSHITH	9.46
17241A0203	AGGARAPU HARI KRISHNA	9.42
17241A0217	DEVASANI PRIYANKA	9.33

HOD,EEE